ShakeAlert® Post-Alert Summary

Overview of ShakeAlert Performance

Earthquake

M 5.3 - 31.7 mi NE of Mammoth Lakes

ANSS origin (Local): 2020-04-11 07:36:37.0
ANSS origin (UTC): 2020-04-11 14:36:37.0
ANSS depth: 10.2 km (6.3 mi)
ShakeAlert alert (UTC): 2020-04-11 14:36:55.6

ShakeAlert Event ID: ew7707

Summary Report

Speed of Alert:

Initial alert after origin time: 18.6 s Final alert update after origin time: 26.8 s

Magnitude Accuracy:

Initial ShakeAlert: M 5.2 Final ShakeAlert: M 5.3 ANSS report: M 5.3

Distance From Alert to Reviewed Location

Initial alert: 1.6 km (1.0 mi) SW Final alert: 2.1 km (1.3 mi) SW

Number of stations reporting

0 within 10 km of epicenter 15 within 100 km of epicenter 17 used in final ShakeAlert update

Performance for Nearby Cities

City	Distance	Warning Time	*MMI
Mammoth La	nke 5 1 km (31 mi)	~0 sec	3
Sonora	144 km (89 mi) ~22 sec	2
South Lake Ta	ah 164 6 km (90 mi) ~22 sec	2
Sacramento	247 km (153 m	i) ~51 sec	<2

Zone Shaken by S-wave Before Alert: 66 km 41 mi

Footnotes

- 1) *MMI -- Modified Mercalli Intensity: a scale to measure ground shaking.
- 2) *Warning Time -- Time between alert production and arrival of the S-wave at a chosen site.

Disclaimer

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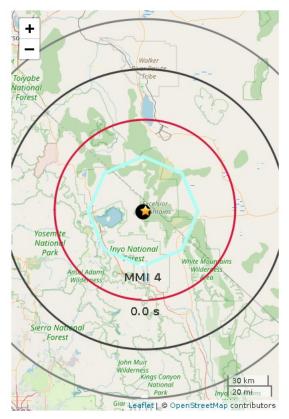


Figure 1. ShakeAlert initial earthquake location (black dot). Star is regional network epicenter. MMI 4 polygon is the estimated initial alert area. Red circle is front of peak shaking when the alert was released. Shaking takes 10 s to expand from circle to circle.



Figure 2. Polygons show shaking intensity contours for the final ShakeAlert. Shaking of intensity 3 or less is often not felt. Star shows the regional network epicenter.